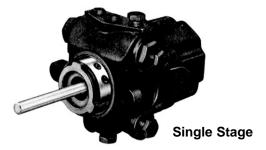
V SERIES HIGH DELIVERY FUEL PUMPS

The V Series is designed to meet the high delivery requirements of commercial, industrial, and institutional systems with a minimum of mechanical and hydraulic noise. Singlestage models can provide a firing rate up to 270 gph at up to 10" Hg inlet vacuum. Two-stage firing rates are as high as 205 gph up to 15" Hg inlet vacuum. Field adjustable integral regulating valves factory pre-set for 100 and 300 psi operation are offered as an option to meet specific system requirements.





FUEL UNIT INSPECTIONS

Single- and Two-Stage Fuel-Units

V Series High Capacity Fuel and Transfer Pumps

Capacities:

Single-stage units: up to 180 gph with #2 oil, to 270 gph with 1000 SSU oil.

Two-stage units: up to 145 gph with #2 oil, to 205 gph with 1000 SSU oil

NOTE: See rating table for capacity at specific pressure and rpm

Pressure:

V02: Rated pressure 300 psi—factory set at 300 psi. V05: Rated pressure 100 psi—factory set at 100 psi. V08: Rated pressure 80 psi—factory set at 20 psi. V00: No internal regulation.

Speeds: 1725 or 3450 rpm.

Rotation: D Style—clockwise when viewed from shaft end. CStyle—counter clockwise when viewed from shaft end.

Porting: 1/4" NPTF: gauge/optional nozzle port, nozzle port. 3/8" NPTF: return port, 2 optional inlets. 1/2" NPTF: inlet in cover

Shaft: DM Style—7/16" x 3 5" extension from mounting face. DO Style—7/16" x 1.88" extension from mounting face.

Seal: Double lip type.

Mounting: Hub or two bolt flange mount.

Filter: No internal filter. External Line filter recommended.

Maximum Inlet Vacuum: Single-stage units: 10" Hg Two-stage units: 15" Hg

U.L. Listed

			-			Inlet Line Sizing	Sizing					
		Max. Kecomd. Firing	soma.	Max. K	Max. Kecomd. Firing	Kequirement	ement h		Recommended	nended		
		Rate gph 34SSU	, de D	Rate 1000	Rate gph 1000SSU	34SSU thru 1000SSU	thru SSU	34SSL	Motor h.p. 3U 10	r h.p. 1000 SSU	SSU	A Ü
	Shaft	1725	3450	1725	3450	1725	3450	1725	3450	1725	3450	
	V05 & V02	V05 & V02 Series Single-Stage Fuel Pumps (with Internal Regulations)	gle-Stag	e Fuel P	umps (wi	th Intern	al Regul	ations)				
100 psi	V052D-4D020	40	75	65	135	65	135	.25	.33	.25	.75	5.13
Ratings	V056C-4D020	130	1	190	1	190	1	.50	1	.75	1	5.13
300 nsi	+V022C-4D020	20	60	50	120	50	120	.50	.75	.50	1.0	5.13
Ratings	+V023C-4D020	40	105	80	185	80	185	.50	1.00	.50	1.5	5.13
)	+V024C-4D020	60	140	110	240	110	240	.75	1.5	.75	2.0	5.13
	+V026C-4D020	95	I	155	I	155	I	1.0	I	1.0	I	5.13
	+V028C-4D020	115	I	190	I	190	I	1.5	I	2.0	I	5.67
300 psi	+2V022C-5D020	20	60	50	120	100	205	.50	1.0	.50	1.5	5.67
Ratings	+2V023C-5D020	40	105	80	185	140	270	.75	1.5	.75	2.0	6.17
	+2V024C-5D020	60	I	110	I	200	I	.75	I	1.0	I	6.71
	+2V026C-5D020	95	I	155	I	250	I	1.5	I	1.5	I	7.75

SELECTION TABLE

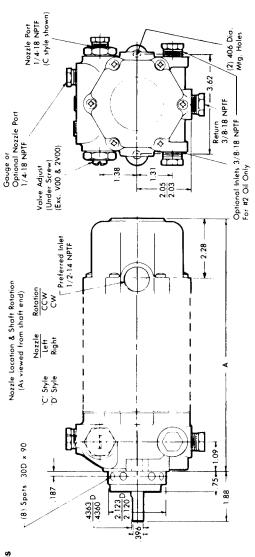
		V00 Series Single-Stage transfer (with no internal Regulation	Single-S	tage trar	ısfer (witl	n no inte	rnal Reg	Julation				
20 psi	V002C-4D0	45	85	70	140	70	140	.25	.25	.25	.50	5.13
Ratings*	V003C-4D0	70	140	100	205	100	205	.25	.25	.25	.75	5.13
	V004C-4D0	95	175	140	270	140	270	.25	.25	.25	.75	5.13
	V006C-4D0	145	I	200	I	200	I	.25	I	.50	I	5.13
I		V08 Series Single-Stage Transfer Pumps (with Internal Regulation)	ngle-Staç	je Transf	er Pumps	s (with In	iternal R	egulatio	(u			
80 psi Ratings*	V086C-4D020	135	I	190	I	250	I	.33	Ι	.75	I	7.75
ı		2V00 Series Two-Stage Transfer Pumps (with no Internal Regulation)	vo-Stage	Transfer) sdwnd	with no I	nternal I	Regulatic	(uc			
20 psi Ratings**	2V006C-5D0	145	I	200	I	250	I	.33	I	.75	I	7.75
I		2V08 S	eries Sul	oply Pum	2V08 Series Supply Pumps (with Internal Regulation)	Internal	Regulati	(uo				
80 psi Ratings**	+2V086C-5D04	135	I	190	I	250	I	.50	I	1.0	I	7.75
 * Operating pr V00 Series g V00 Series g 	Operating pressure to 300 psi permissible (using external regulating valve) V00 Series gph and hp ratings at 100 psi same as V05 ratings above. V00 Series gph and hp ratings at 300 psi same as V02 ratings above.	missible (using 100 psi same a 300 psi same a	external I s V05 rat s V02 rat	egulating ings abov ings abov	j valve) /e. /e.							
** Operating pr 2V00 Series	** Operating pressure to 300 psi permissible (using external regulating valve) 2V00 Series gph and hp ratings at 300 psi same as V02 ratings above.	missible (using t 300 psi same	external i as V02 ra	egulating atings abo	j valve) ove.							
+Also available in e	e in clockwise rotation.	_										

V00 Sorios Singlo-Stado transfor (with no informal Bodulation

V SERIES CODE ANALYSIS

HARDENED	GEARS —	<u> </u>	<u>J7</u>	<u>'1</u> —N	ИFG	. DA	TE COD	ЭE
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) <u>2</u> T B	ç	D	Ē	F	l G	
ROTATION								
Α								
Pump Se								
	le-Stage							
2VO—Two	o-Stage							
D	Rated	T	vp.	Adj.				
Pressure	Pressur		Ran					
Code	(psi)		(ps	•				
0	No Valv	е		-				
5	100	8	35-1	20				
2	300	1	25-3	330				
8	80		15-8	85				
С								
Gear Size C	ode Nom.	Thickn	ess	;				
2		1/4						
3		3/8						
4		1/2						
6		3/4						
8		1						
D								
Body								
Style		Nozzle						
<u> </u>	CCW	Left						
D	CW	Right						
	ozzle locatio							
	tion determin							
viewing ui	nit from shaf	t ena.						
Е.							_	
No.		ign Seri	ies				_	
1	Initial Des						_	
3								
							.	
	4 Single-Stage, Seal Pressed in Body							
5	Same as	3 Ex. S	eal	Pres	sed/	Body	<u>/</u>	
F.		G						
Cust. Code	Shaft Ext.					erati		
DM	3-1/2	V-G	uide	e, Or	ie Sl	ot, N	lo Cutof	f
DO	1-7/8	No N	umb	per fo	or Tr	ansf	er Pump	os
Rotation an	d Nozzle Lo							

V Series Fuel-Units are available in standard C Style Models (counterclockwise rotation, nozzle port on left, as viewed from shaft end) or D Style Models (clockwise rotation, nozzle port on right, as viewed from shaft end.



NOTE: To assure compliance with National Fire Protection Association's Bulletin 31. "Installation of Oil Burning Equipment." fuel unit inlet pressure should not exceed 3 psig.

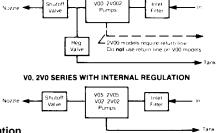
Dimensions

INSTALLATION DATA

V Series pumps are shipped from the factory set for two-pipe operation. They are not recommended for use in one-pipe systems (except series V00, see Note 1).

IMPORTANT: Do not loosen or try to tighten any pump plugs not to be used in the installation. NON-HARDENING OIL PIPE DOPE IS RECOMMENDED for use on the threads of all fittings. Teflon tapes or paste must be used with care to prevent depositing tape pieces or fibers into critical internal areas of the pump. Reduced torques must be used with teflon materials to avoid thread or casting damage. EVI-DENCE OF TEFLON MATERIAL IN INTERNAL AREAS OF THE FUEL-UNIT WILL BE CAUSE TO VOID WARRANTY.





Installation

1. Connect inlet line to preferred INLET PORT. Use of inlet in cover is recommended for minimum inlet vacuum loss. Connect nozzle line to nozzle port.

2. Connect return line to preferred RETURN PORT except on V00 pumps. Use of bottom return is recommended to minimize back pressure. Top return port not recommended for oil heavier than #2.

3. Plug all unused ports securely.

4. Start burner. Two-stage and most one-stage pumps will self-vent. V00 with shut-off valve in nozzle line may have to be vented manually by loosening GAGE PORT plug. Tighten plug securely when oil flows clear.

Installation Notes:

"Fuel unit inlet pressures should not exceed 3 psig in order to comply with National Fire Protection Association's Bulletin 31."

To assure maximum performance, INLET VACUUM, measured at unused INLET PORT, should not exceed 10" Hg on single-stage pumps or 15" Hg on two-stage pumps.

NOTE: Max Recommended Firing Rates apply to 10" Hg for single-stage units and 15" Hg for two-stage units.

